

## AWBERC IACUC MEETING

Date: 4 June 2019

Room 230

1:00-2:00 pm

Members: Present or Absent

Exemption 6, Exemption 6, Exemption 6, Exemption 6, Exemption 6, Michael Ware, Exemption 6, Joanne Tetens (AV), Exemption 6

Exemption 6 by phone

Others Present: Exemption 6 Exemption 6 Exemption 6 Exemption 6

### AGENDA

1. Semi-annual reviews
  - a. Program Review
  - b. Facility inspection
2. IACUC transitions
  - a. Exemption 6 retirement
  - b. Exemption 6 (SHEM)
3. Animal care transitions
  - a. Exemption 6 quit
  - b. Mods to add \_TBD\_ to be filed
4. ESF dates---- Need to inspect July and AUG (Ware will)
5. Fish Donation SOP
  - a. 19 March excess fish donated to zoo. Five fish left in a few inches of turbid water, animal care team member called away for family emergency
  - b. Fish appeared to be abandoned, but were not in danger
  - c. This was a one time event and the care team will review protocols
6. Fish tank MESH attachment issue: exit port mesh need extra support
7. Chair activities
  - a. Renewed controlled substance licenses
  - b. Controlled substance SHEM audit
  - c. Annual reviews received
    - 18-01, 17-01, 17-02
  - d. Annual reviews due by 7 June
    - 18/02-4 and 17/03-6
  - e. Annual review due Aug 17-07
8. Reorganization and GAO
  - a. GAO audit
    - Within EPA some animal research occurring without IACUC
    - EPA policy will require IACUC for invertebrates
  - b. ORD Re-organization and GAO Response
    - Some or all IACUC functions will be centralized at ORD level with NHEERL leading; not sure at this point what will occur or when
    - All non-compliant animal research overseen by NHEERL IACUC

- Our IO and membership criteria may need to change depending reorg (ie no NERL or NRMRL)
- CI- may have to add protocols for clam work

9. Training event: Adapted PRIMR overview on IACUC and Facility inspections  
(<https://www.primr.org/>)

10. Next meeting semi-annual review and inspection

- a. Nov- Dec time frame TBD

11. 2020

- a. 8 protocols expiring
- b. AAALAC site visit (Oct-Dec)
- c. Semi-annual reviews.

Protocol Number	Investigator	Title
18-01	Exemption 6	The culture, rearing and holding of Fathead minnows ( <i>Pimephales promelas</i> ), Bluntnose minnows ( <i>Pimephales notatus</i> ), Common carp ( <i>Cyprinus carpio</i> ), Rainbow Trout ( <i>Oncorhynchus mykiss</i> ), Brook Trout ( <i>Salvelinus fontinalis</i> ), Bluegill Sunfish ( <i>Lepomis macrochirus</i> ), White Suckers ( <i>Catostomus commersoni</i> ) Bass ( <i>Micropterus</i> sp.) and Zebrafish ( <i>Danio rerio</i> ) for use in aquatic toxicity exposure testing.
17-01	Exemption 6	The holding of <i>Pimephales promelas</i> (Fathead minnow) for use in aquatic toxicity exposure testing at the USEPA Experimental Streams Facility, Milford, Ohio
17-02	Ware	Production of <i>Cryptosporidium parvum</i> and <i>Giardia duodenalis</i> in mice
18-02	Exemption 6	Identification of animal models and exposure procedures for determining health risks of unregulated microbial pathogens commonly isolated from drinking water and reclaimed water sources
18-03	Exemption 6	Aerosol exposures using the aerosol containment system
18-04	Exemption 6	Field deployment of adult and larval <i>Pimephales promelas</i> (Fathead minnows) to determine In-situ exposure to endocrine disrupting materials (EDCs)
17-03	Exemption 6	The culture, rearing and holding of <i>Ceriodaphnia dubia</i> , <i>Daphnia magna</i> , <i>Daphnia pulex</i> , <i>Hyalella azteca</i> , <i>Chironomus dilutus</i> , <i>Centropetium triangulifer</i> , <i>Lumbriculus variegates</i> , <i>Mytilus edulis</i> and <i>Mercenaria mercenaria</i> for use in aquatic toxicity exposure testing.
17-04	Exemption 6	Toxicity Test Method Development, Validation and Use for <i>Ceriodaphnia dubia</i> , <i>Daphnia magna</i> , <i>Hyalella azteca</i> , <i>Chironomus dilutus</i> , <i>Centropetium triangulifer</i> , <i>Lumbriculus variegates</i> , mussels and clams such as but others may be used as projects arise, <i>Corbicula</i> , <i>Mytilus edulis</i> and <i>Mercenaria mercenaria</i> .
17-05	Exemption 6 Exemption 6	Studies Using the AquaTEC Online Toxicity Monitor
17-06	Exemption 6	Mammalian Sentinel Program
17-07	Exemption 6 Exemption 6	<i>Mycobacterium</i> Exposure Protocol for Zebrafish ( <i>Danio rerio</i> ): Early Lifestage Infectivity Testing
17-08	Exemption 6	The use of Molecular Indicators of Stress to Assess the Environmental Factors Affecting the Health and Condition of adult, embryo, larval and juvenile minnows ( <i>Pimephales promelas</i> and <i>Pimephales notatus</i> ), adult and juvenile Common carp ( <i>Cyprinus carpio</i> ), Rainbow Trout ( <i>Oncorhynchus mykiss</i> ), Brook Trout ( <i>Salvelinus fontinalis</i> ), Bluegill Sunfish ( <i>Lepomis macrochirus</i> ), Bass ( <i>Micropterus</i> sp.) White Suckers ( <i>Catostomus commersoni</i> ) and Zebrafish ( <i>Danio rerio</i> ).
18-05	Ware	Maintaining a Breeding Colony of CF-1 mice ( <i>Mus musculus</i> )

## AWBERC IACUC MEETING

Date: 4 DEC 2019

Room 402

2:00-3:00 pm

Members: Present or Absent

Exemption 6 Exemption 6 Exemption 6 Exemption 6 Exemption 6 , Michael Ware, Joanne Tetens  
(AV)(phone), Exemption 6

Others Present: Exemption 6 Exemption 6 Exemption 6 Exemption 6 Exemption 6 Exemption 6  
Exemption 6 Exemption 6 Exemption 6

### Minutes

1. Semi-annual reviews
  - a. Program Review
  - b. Facility inspection--- minor findings
2. Reorganization
  - a. All animal work now in 1 center and 1 division for Cincinnati
  - b. EPA mammalian phase out by 2035.
  - c. Kevin Oshima new IO
  - d. ORD Re-organization Fallout
    - Some IACUC functions will be centralized at ORD level
    - CI-IACUC membership criteria changed in policies and procedures
    - ORD requirement for IACUC protocols to be in ACUP database
3. Training event: ACUP --- new protocol application form
4. Discussion Invertebrate culture and exposure protocols are expiring—do we wish to keep these as protocols?? Yes—since work is mission critical
5. Protocol updates
  - a. Aerosol Containment chamber
    - VHP for decontamination
    - Fed post doc end of Jan time frame
  - b. 17-07 terminated by retirement of PI.
  - c. 18-05 terminated by PI due to census issues
  - d. 18-02--- Mod adding: Euthasol and Beuthanasia overdose as euthanasia agents (both same agents AV advised that larger bore needle with luer lock be used as they are viscous)
  - e. 17-02—Mod adding SCID mice
6. Next meetings
  - a. March:
    - 2 protocol renewals
    - Revisions to policies and procedures manual
    - Review whistleblower and enrichment documents
  - b. June semi-annual review and inspection, 3-5 protocol renewals
  - c. AAALAC site visit (Oct-Dec)
  - d. DEC Semi-annual reviews.
7. Some discussion of how to report fish embryos and field research issues

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IACUC Meeting Minutes  
16 March 2020  
Skype and phone

Members Present/ absent:

Mike Ware, Joanne Tetens (AV), **Exemption 6****Exemption 6****Exemption 6****Exemption 6**

**Exemption 6**

Non-members

**Exemption 6****Exemption 6**

Items Discussed:

1. Protocol Renewals
  - a. Ware Giardia (17-02)
    - i. Nothing discussed
    - ii. IACUC approved (Ware did not vote)
  - b. **Exemption 6** ESF (17-01)
    - i. ESF not satellite facility
    - ii. Co-investigators need to be trained
    - iii. Correct euthanasia section to 30 min after opercular movement ceases
    - iv. IACUC approved **Exemption 6** did not vote)
  - c. ACUP and signing—process to be fully determined for non-EPA members, EPA members will be able to sign in the system.
2. Revised Policies and Procedures
  - a. Revised names and affiliations
  - b. Revised IO appointment policies per ORD policy
  - c. Updated training requirements
  - d. Add acup for protocols
3. Revised Environmental Enrichment Policy in process
  - a. Add rodent shelf
  - b. No changes for fish
4. AVMA guidelines changed
  - a. CO2—protocols and supplies changed. CO2 displacement rate increased.
  - b. Fish
    - i. MS222 exposure time changed
    - ii. Protocols to be revised
5. Chair activities
  - a. Controlled substance audit SHEM; DEA visit
  - b. Annual review (18-01)
  - c. Mods to add staff onto 18-01, 18-02 and 18-03
  - d. AAALAC program description due 1 AUG
    - i. Same format as last time being reviewed by AV and **Exemption 6****Exemption 6**
    - ii. Big changes to personnel and organization, otherwise minor revisions
    - iii. Site visit may be postponed pending effects of COVID19 fallout.
6. COVID19
  - a. Now— normal function
  - b. Mice

- i. MPF care for mice, they have access if building shut down
    - ii. IF MPF cannot care due to illness, Ware will care for short term
    - iii. If MPF and Ware cannot care for animals---- euthanize (census is small)
  - c. Aquatic side
    - i. Exemption 6 have access if building shut down, much larger pool of staff than MPF
    - ii. IF Exemption 6 cannot care due to illness, Exemption 6 will care for short term
  - d. Total national shutdown; likely euthanize all.
- 7. IACUC training
  - a. Report coming, members need 2 hours in last 3 years
  - b. AALAS learning library link to be sent to all members and new researchers
- 8. Upcoming IACUC Activities
  - a. June Semiannual reviews, 4-5 protocol renewals
  - b. AAALAC site visit (TBD)
  - c. NEW protocol Earthwoms--Exemption 6